BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Improvements to roads and drains at Valmiki Maharshi road, AD Colony, Munithamayya layout cross roads and surrounding area in Ward No. 01 of Yelahanka Sub division

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
1	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No-27,I No-5.33)								
	For Drain Desilt	Sqm							
	Munithimmaiah layout								
	Main Road		2	180.00	0.90		324.00		
	Cross road-1		1	25.00	0.75		18.75		
	Cross road-2		1	25.00	0.75		18.75		
	Main Road, Maruti Hospital Road		2	180.00	0.75		270.00		
							631.50		
	consider 50% for R & R						315.75		
							315.75	111.30	**35142.98**
	Basic Rate Rs.=	105.00							
	Add 6% A.W Rs. =	6.30							
	Total Rate Rs. =	**111.30**							
2	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (P.No-143, I.No-19.1)								
	For RCC Drain	Cum							
	Kondappa Garden Layout								
	Cross Road-2		2	51.00	1.20	1.00	122.40		
	Cross Road-3		2	40.00	1.20	1.00	96.00		
	Main Road, Maruti Hospital Road		1	133.00	1.20	1.00	159.60		
	Cross Road		1	113.00	1.20	1.10	149.16		
	For RCC Culvert		4	5.50	1.60	1.00	35.20		
	For Drain Desilt								
	Munithimmaiah layout								
	Main Road		2	180.00	0.60	0.40	86.40		
	Cross road-1		1	25.00	0.45	0.40	4.50		
	Cross road-2		1	25.00	0.45	0.40	4.50		
	Main Road, Maruti Hospital Road		2	180.00	0.45	0.40	64.80		
							722.56	215.28	**155552.72**
	Basic Rate Rs.=	130.00							
	Add 6% A.W Rs. =	7.80							
	Sub Total =	137.80							
	8Km Lead, Loading and Unloading =(2*1.28*8)+57	77.48							
	Total Rate Rs. =	**215.28**							
3	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18)								
	For Drain	Cum							
	Kondappa Garden Layout								
	Cross Road-2		2	51.00	1.20	0.15	18.36		
	Cross Road-3		2	40.00	1.20	0.15	14.40		
	Main Road, Maruti Hospital Road		1	133.00	1.20	0.15	23.94		

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
	Cross Road		1	113.00	1.20	0.15	20.34		
	For RCC Culvert		4	5.50	1.60	0.15	5.28		
	For Kerb stone								
	Munithimmaiah layout								
	Main Road		2	180.00	0.20	0.10	7.20		
	Main Road, Maruti Hospital Road		2	313.00	0.20	0.10	12.52		
	For CC Road								
	Kondappa Garden Layout								
	Cross road-1		1	76.00	5.00	0.15	57.00		
	Cross road-2		1	51.00	4.90	0.15	37.49		
	Cross road-3		1	40.00	5.20	0.15	31.20		
	Road Opp. Shoe Bazaar		1	36.00	3.50	0.15	18.90		
	Munithimmayya layout								
	Cross road-1		1	25.00	4.90	0.15	18.38		
	Cross road-2		1	25.00	5.00	0.15	18.75		
							283.75	5421.90	**1538464.13**
	Basic Rate Rs.=	5115.00							
	Add 6% A.W Rs. =	306.90							
	Total Rate Rs. =	**5421.90**							
4	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. With 20mm and sown size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compcted for walls and bottom including centring shuttering cost of material HOM of machinary curing etc., complete execluding cost of steel as per MORTH specification no. 1500, 1700, 2200 including cost of material labour HOM complete as per specification. (P.No.271, I.No.37.59.2 of PW, P&IWTD S.R 2018-19)								
	For RCC Drain	Cum							
	Bottom slab								
	Kondappa Garden Layout								
	Cross Road-2		2	51.00	1.10	0.15	16.83		
	Cross Road-3		2	40.00	1.10	0.15	13.20		
	Main Road, Maruti Hospital Road		1	133.00	1.10	0.15	21.95		
	Cross Road		1	113.00	1.10	0.15	18.65		
	side walls								
	Kondappa Garden Layout								
	Cross Road-2		4	51.00	0.15	0.60	18.36		
	Cross Road-3		4	40.00	0.15	0.60	14.40		
	Main Road, Maruti Hospital Road		2	133.00	0.15	0.60	23.94		
	Cross Road		2	113.00	0.15	0.60	20.34		
	Munithimmaiah layout								
	Main Road		4	180.00	0.15	0.25	27.00		
							174.66		
	For RCC Culvert								
	Raft		4	5.50	1.20	0.20	5.28		
	side walls		8	5.50	0.20	0.60	5.28		
							10.56		
					Net Qty.		**185.22**	7070.20	**1309542.44**
	Basic Rate Rs.=	6670.00							
	Add 6% A.W Rs. =	400.20							
	Total Rate Rs. =	**7070.20**							

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
5	KSRRB - M2300-14: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.MORTH Specification No. 1600 & 2200 for TMT bars Fe 500. (P.No.239, I.No.29.29.2 of PW, P&IWTD S.R 2018-19)								
	Considering steel For Drain @ 70 kg / cum	Tonne		174.66	0.070	--	12.23		
	Considering steel For Culvert @ 100 kg / cum			10.56	0.100	--	1.06		
							13.28	73992.24	**982779.73**
	Basic Rate Rs.=	69804.00							
	Add 6% A.W Rs. =	4188.24							
	Total Rate Rs. =	**73992.24**							
6	Providing and fixing RCC precast cover slab of 100mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	For drain cover slab	Sqm							
	Kondappa Garden Layout								
	Cross Road-2		2	51.00	0.90	--	91.80		
	Cross Road-3		2	40.00	0.90	--	72.00		
	Main Road, Maruti Hospital Road		1	133.00	0.90	--	119.70		
	Cross Road		1	113.00	0.90	--	101.70		
	missing/damaged from item no.01						315.75		
							700.95	2337.00	**1638120.15**
7	Providing and fixing RCC precast cover slab of 250mm thick made out of CC 1:2:4 and jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	For Culvert Slabs	Sqm	4	5.50	1.20	--	**26.40**	5418.00	**143035.20**
8	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete. As per the direction of Engineer incharge. (P.No.27, I.No.5.30 of PW, P&IWTD SR 2018-19)								
	For Drain	Nos							
	Munithimmaiah layout								
	Main Road		2	180.00			360.00		
	Main Road, Maruti Hospital Road		2	313.00			626.00		
							986.00		
							2191.00	432.48	**947563.68**
	Basic Rate Rs.=	408.00							
	Add 6% A.W Rs. =	24.48							
	Total Rate Rs. =	**432.48**							
9	Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 Specification No. KSRRB M800-6. (P.No.180, I.No.24.1 of PW, P&IWTD SR 2018-19)								
	For Drain	Sqm							
	Munithimmaiah layout								
	Main Road		2	180.00	0.40		144.00		
	Main Road, Maruti Hospital Road		2	313.00	0.40		250.40		
							394.40	84.80	**33445.12**

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
	Basic Rate Rs.=	80.00							
	Add 6% A.W Rs. =	4.80							
	Total Rate Rs. =	**84.80**							
10	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 8km lead= (I No-19.14,P No-143)								
	For Concrete Road	Cum							
	Kondappa Garden Layout								
	Cross road-1		1	76.00	5.00	0.30	114.00		
	Cross road-2		1	51.00	4.90	0.30	74.97		
	Cross road-3		1	40.00	5.20	0.30	62.40		
	Road Opp. Shoe Bazaar		1	36.00	3.50	0.30	37.80		
	Munithimmayya layout								
	Cross road-1		1	25.00	4.90	0.30	36.75		
	Cross road-2		1	25.00	5.00	0.30	37.50		
							363.42	63.94	**23237.07**
	Basic Rate Rs.=	41.00							
	Add 6% A.W Rs. =	2.46							
	Sub Total =	43.46							
	8Km Lead, Loading and Unloading =(2*1.28*8)	20.48							
	Total Rate Rs. =	**63.94**							
11	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202 with 8km lead= (I No-18.47,P No-140)								
	For Concrete Road	Cum							
	Valmiki Maharshi Road		1	53.00	1.90	0.150	15.11		
							15.11	973.42	**14703.51**
	Basic Rate Rs.=	899.00							
	Add 6% A.W Rs. =	53.94							
	Sub Total =	952.94							
	8Km Lead, Loading and Unloading =(2*1.28*8)	20.48							
	Total Rate Rs. =	**973.42**							
12	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision.(I No-20.5,P No-153)								
	For Concrete Road	Cum							
	Kondappa Garden Layout								
	Cross road-1		1	76.00	1.00	0.150	11.40		
	Cross road-2		1	51.00	1.00	0.150	7.65		
	Cross road-3		1	40.00	1.00	0.150	6.00		
	Road Opp. Shoe Bazaar		1	36.00	1.00	0.150	5.40		
	Valmiki Maharshi Road		1	53.00	0.60	0.150	4.77		
	Munithimmayya layout								
	Cross road-1		1	25.00	1.00	0.150	3.75		
	Cross road-2		1	25.00	1.00	0.150	3.75		

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
							42.72	1994.92	**85222.98**
	Basic Rate Rs.=	1882.00							
	Add 6% A.W Rs. =	112.92							
	Total Rate Rs. =	**1994.92**							
13	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum. over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc., complete as per specifications. (P.No-176,I No-22.6.1)								
	For Concrete Road	Cum							
	Kondappa Garden Layout								
	Cross road-1		1	76.00	5.00	0.150	57.00		
	Cross road-2		1	51.00	4.90	0.150	37.49		
	Cross road-3		1	40.00	5.20	0.150	31.20		
	Road Opp. Shoe Bazaar		1	36.00	3.50	0.150	18.90		
	Valmiki Maharshi Road		1	53.00	1.90	0.150	15.11		
	Munithimmayya layout								
	Cross road-1		1	25.00	4.90	0.150	18.38		
	Cross road-2		1	25.00	5.00	0.150	18.75		
							196.82	5210.96	**1025595.09**
	Basic Rate Rs.=	4916.00							
	Add 6% A.W Rs. =	294.96							
	Total Rate Rs. =	**5210.96**							
14	Vaccum De- writing with vaccum pump and suction mat and compaction with skin flater clubbed with floatiog disc including cost of generator, HOM of machinery Sereed Vibratory Power Floaterblade and diisc etc. with all lead and lift. (Page No 176 Item No 22.7)								
	For Concrete Road	Sqm							
	Kondappa Garden Layout								
	Cross road-1		1	76.00	5.00		380.00		
	Cross road-2		1	51.00	4.90		249.90		
	Cross road-3		1	40.00	5.20		208.00		
	Road Opp. Shoe Bazaar		1	36.00	3.50		126.00		
	Valmiki Maharshi Road		1	53.00	1.90		100.70		
	Munithimmayya layout								
	Cross road-1		1	25.00	4.90		122.50		
	Cross road-2		1	25.00	5.00		125.00		
							1312.10	72.08	**94576.17**
	Basic Rate Rs.=	68.00							
	Add 6% A.W Rs. =	4.08							
	Total Rate Rs. =	**72.08**							
							Sub Total 1 Rs.		**8026980.97**

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
	Add GST @ 12%								963237.72
	Add KRIDL @ 4%								321079.24
	DPR & PMC Charges including GST								188000.00
							Sub Total 2 Rs.		9499297.92
	Miscellaneous & Rounding off								702.08
								Total Rs.	9500000.00

CERTIFICATE:

1 The work spot has been inspected by me and the work is found to be necessary
2 The estimate is prepared as per PW, P&IWTD S.R Bangalore circle for the year 2018-2019.
3 The Provisions made in the estimate are quite necessary and adequate.
4 The area comes with in the BBMP limits.

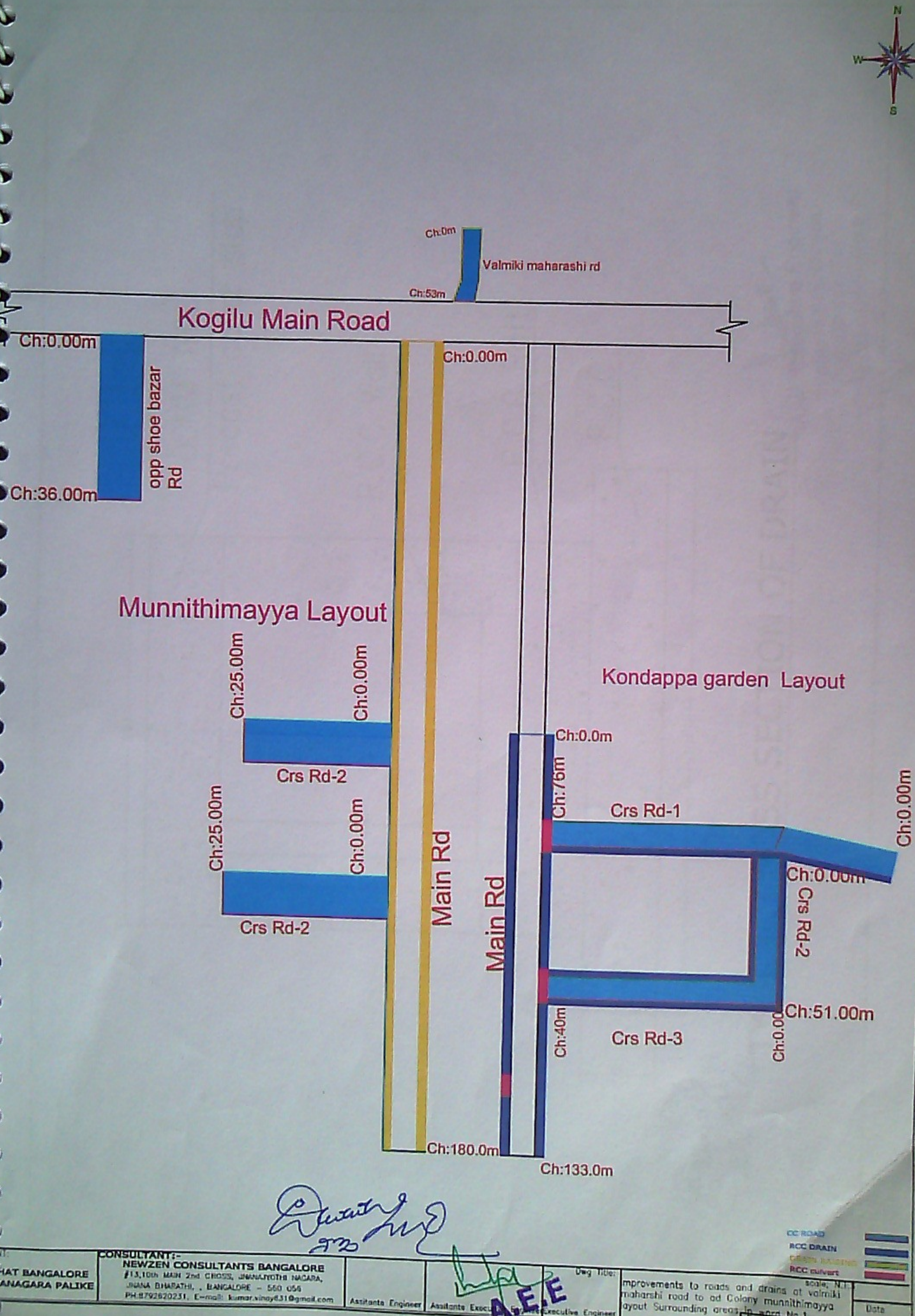
Assistant Engineer	Assistant Executive Engineer	Executive Engineer
Ward 01	Yelahanka Sub Division	Yelahanka Division
BBMP	BBMP	BBMP

Administrative Sanction for Rs. ....95.00 Lakhs
....Ninety five Lakhs only.....
.....
is accorded under head ....P-3727.....
....Chief Minister Nava.....
....Nagarothkana grants 2018-19.
Registered as CE No. ... subject
to condition contained
No EE/YNK/AS/26/2019-20 28/10/2019

Executive Engineer

Technical Sanction
Accorded For ₹95 lacs only
Head of A/C P3727
CER NO :...104..... Dt:28.10.2019

[TA] CE (YNK)



CLIENT:
HAT BANGALORE
MAHANAGARA PALIKE

CONSULTANT:-
NEWZEN CONSULTANTS BANGALORE
#13,10th MAIN 2nd CROSS, JNANAJYOTHI NAGARA,
JNANA BHARATHI, , BANGALORE – 560 056
PH:8792820231, E-mail: kumar.vinay631@gmail.com

Assitants Engineer

Assitants Executive Engineer

A.E.E

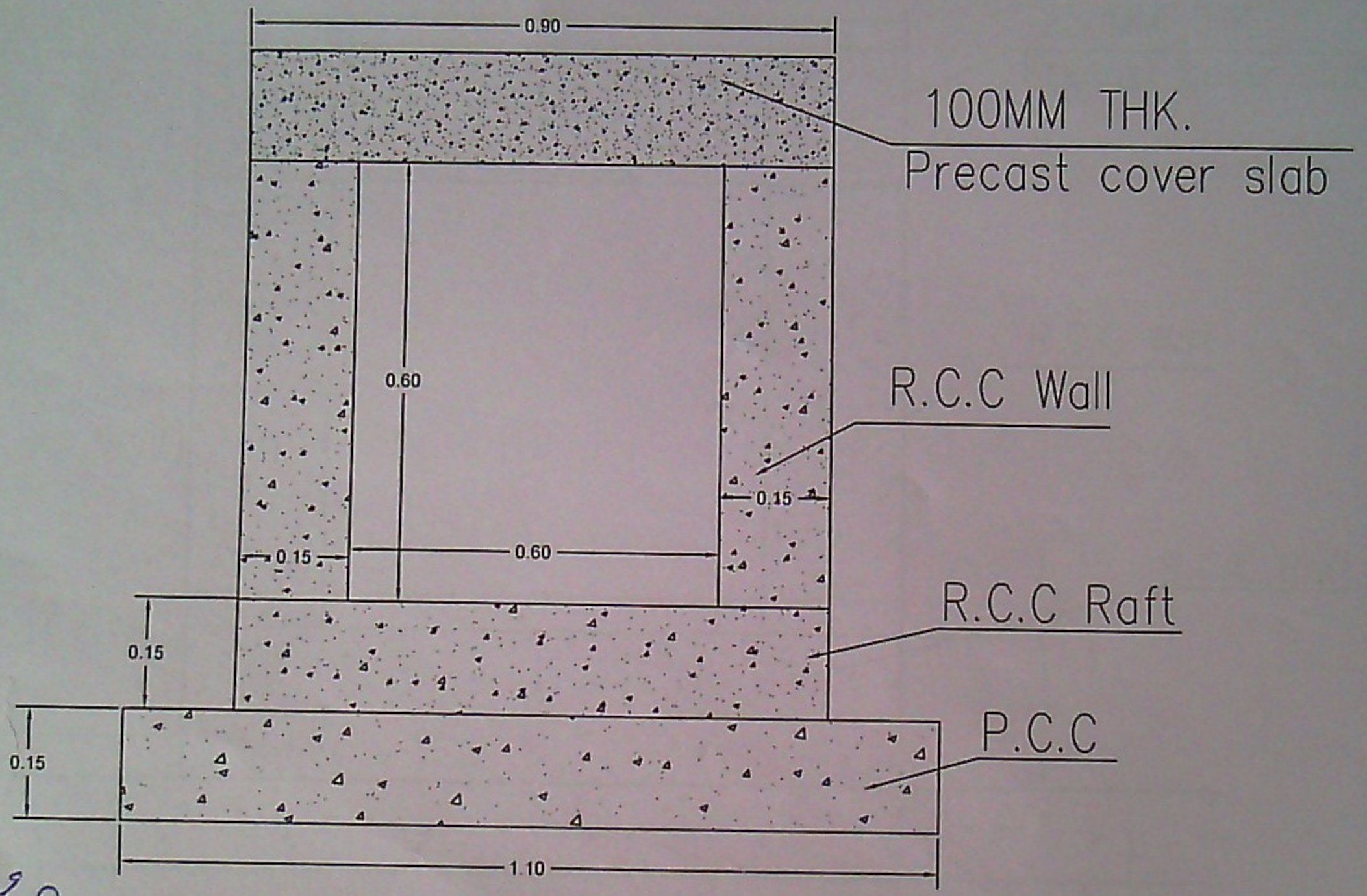
Executive Engineer

Dwg Title:
mprovements to roads and drains at valmiki maharshi road to ad Colony munnithimayya ayout Surrounding areas in ward No 1

scale: N.T.S

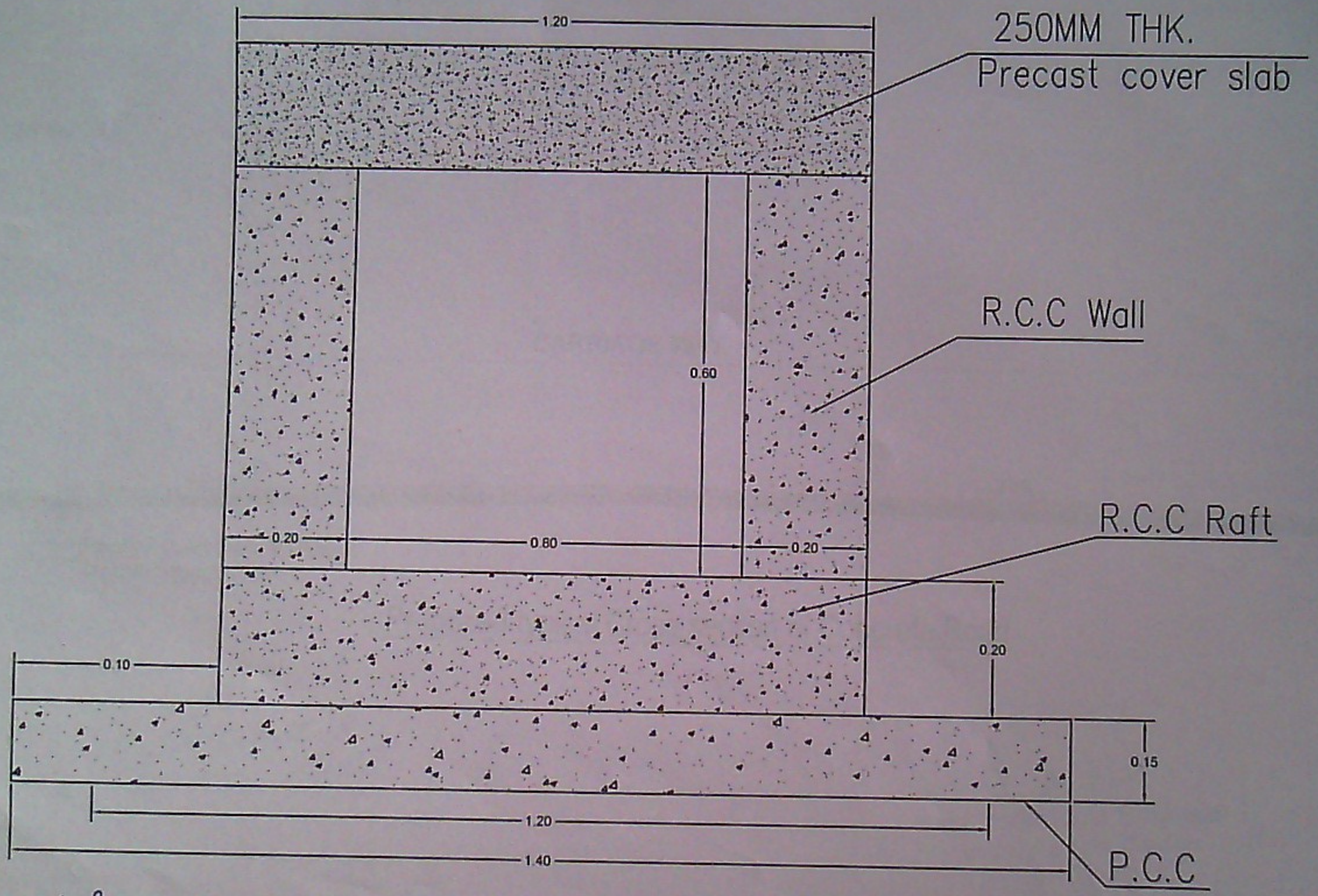
Dwg no:

Date



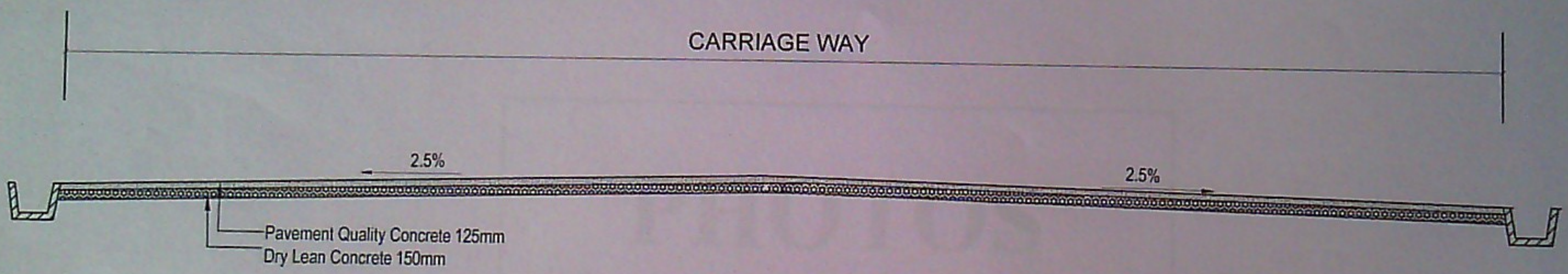
TYPICAL CROSS SECTION OF DRAIN

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore



TYPICAL CROSS SECTION OF CULVERT

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore



Proposed typical Cross section of Concrete Road

22

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)
Yelahanka, Bangalore